



Redline Fire Solutions rolls out dual-agent system to combat lithium-ion battery fires

Redline Fire Solutions, a pioneer in next-generation fire suppression technology, has launched two products to address one of the most dangerous and common fire threats: thermal runaway in lithium-ion batteries

From electric vehicles to consumer electronics and energy storage systems, lithium-ion batteries are everywhere, and when they fail, the consequences are explosive. Traditional suppression methods, including thousands of gallons of water, are often ineffective at stopping the violent chain reaction known as thermal runaway.

Thermal Stop, a high-performance extinguishing agent, and Thermal Shield, a protective gel for post-fire containment and transport, work together to suppress, stabilise, and secure battery systems during and after an incident.

Thermal Stop is a liquid agent that penetrates deep into compromised battery cells, cooling them and chemically

interrupting the runaway process. Once extinguishment is achieved, Thermal Shield is applied. This gel-based barrier that traps toxic gases, encapsulates harmful materials, and prevents reignition. It is especially critical during battery removal and transport, when reignition is most likely to occur.

Both products are formulated using ingredients listed in the EPA Safer Choice Program, making them environmentally responsible and effective. Affirming their reliability in demanding firefighting conditions, Thermal Stop and Thermal Shield are certified to NFPA 18 standards.

“Lithium-ion battery fires are not like anything we’ve fought before,” said Chrystel Worsman of Redline Fire Solutions.

“Cooling alone is not enough. Thermal Stop rapidly halts the chemical reaction while Thermal Shield prevents re-ignition during transport and recovery. Together, they offer a complete solution unlike anything currently in use.”

To ensure effective global deployment, Redline has appointed KnightTEK, LLC, as the exclusive worldwide distributor. With roots in high-risk industrial environments and a deep commitment to firefighter safety, KnightTEK brings specialised expertise and real-world application to municipal, industrial, and wildland firefighting alike.

“Lithium-ion fires are no longer rare. They’re in our homes, our streets, and our cities,”

said Stephen Knight, CEO of KnightTEK. “Our partnership with Redline allows us to deliver not just a product, but a complete, field-tested system to first responders who urgently need better tools for this new class of fire.”

Redline’s fire suppression technologies are built on frontline experience, including that of its founder and CEO, Chief Phil Worsman, a seasoned fire service leader and California State Fire Instructor.

“We created Thermal Stop and Thermal Shield with the fireground in mind,” said Chief Worsman. “As a firefighter, I’ve seen firsthand how dangerous and unpredictable lithium-ion fires can be. These products are the result of years of field testing and innovation, driven by a mission to give firefighters the tools they need to win the fight safely and efficiently.”

Municipal fire departments, hazmat teams, and emergency response agencies interested in product demonstrations, training, or procurement should contact KnightTEK directly.

Click here for demonstration video <https://www.knightfiretek.com>